RadioShack®
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# 12-Digit Printing Calculator

65-1002
Owner's Manual
Please read before using this equipment.

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# ❒ Benefits

Thank you for purchasing the RadioShack 12-Digit Printing Calculator. It is full-featured, and designed for accuracy and ease of use. The calculator can perform many different types of calculations, including percentage, add-on, discount, and many other calculations. The print function produces a permanent record of each entry and calculation result for later reference. The calculator is compact, so it fits easily into a briefcase or travel bag for people on the go.

**Two Power Sources** — power your calculator from four AA batteries or standard AC power (with an optional AC adapter).

**Paper Feed Key** — quickly advance the print paper without affecting calculations.

**Two-Way Paper Feed** — lets you feed paper from an internal compartment or from a convenient fold-out roll holder.

**Tax Calculations** – perform price – with or without – tax calculations easily.

**Currency Conversion** – convert foreign currency to US dollars or vice versa. You can also convert one currency to another.

**Four-Key Memory** — save subtotals, then add to, subtract from, and recall them for additional calculations.

**Non-Add Print Key** — print dates, code numbers, or other reference numbers without affecting the calculations. You can also print only the calculation results.

**Automatic Power Off** — conserves battery power by turning off the calculator about 6 minutes after the last entry.

Before you begin using your new calculator, we recommend you completely read through this manual and familiarize yourself with the calculator's functions and features.

# ❒ The FCC Wants You to Know

This device complies with Part 15 of the *FCC Rules*. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- Reorient or relocate the receiving antenna.
- Increase the distance between the calculator and the radio or TV.
- Use outlets on different electrical circuits for the calculator and the radio or TV.

Consult your local RadioShack store if the problem still exists.

# ❒ Preparation

## CHOOSING A POWER SOURCE

You can power your calculator from:

- four AA batteries (not supplied)
- standard AC power, using an AC adapter (not supplied)

If you plan to use the print function frequently, we suggest you use an AC adapter.

### Installing Batteries

You can power your calculator from four AA batteries. We recommend RadioShack alkaline batteries for longest life.

**Cautions:**

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or

rechargeable batteries of different capacities.

1. Slide the battery compartment cover in the direction of the arrow and remove it.
2. Install the batteries as indicated by the polarity symbols (+ and –) marked inside the compartment.
3. Replace the cover.
4. Press **AC** to turn the power on, then press **RESET** (above **M/EX** and **OFF**, below and to the right of the display) with a straightened paper clip to clear the calculator.

When the calculator stops operating properly, turn the power off, then replace the batteries.

The tax and exchange rate memory contents may not be retained when you replace the batteries. If they are not, press **RESET** and reenter the rates.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use the calculator for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Using AC Power

You can power the calculator using a 6V, 300 mA AC adapter and a size M Adaptaplug™ adapter (neither supplied). Both are available at your local RadioShack store.

**Cautions:**

You must use a Class 2 power source that supplies 6V DC and delivers at least 300 mA. Its center tip must be set to negative and its plug must fit the calculator's jack. Using an adapter that does not meet these specifications could damage the calculator or the adapter.

- Always connect the AC adapter to the calculator before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the calculator.

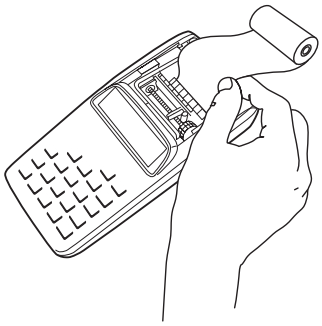
1. If necessary, set the adapter's voltage switch to 6V.
2. Attach the Adaptaplug to the adapter cord, matching TIP on the plug's side with –NEG on the cord.
3. Insert the adapter's barrel plug into the calculator's jack.
4. Plug the other end of the adapter into a standard AC outlet.

## Installing the Paper Roll

**Note:** If the paper roll does not fit inside the paper roll compartment, you can use the external roll holder until the roll is small enough to fit inside the compartment (about one inch in diameter).

1. Press **AC** to turn on the calculator.
2. Slide open the paper roll compartment cover and lift it off.
3. Cut the end of the paper to form a straight end.

4. Insert the end of the paper into the slot inside the compartment and press **FEED** to advance the paper.



5. Place the paper roll inside the paper roll compartment.

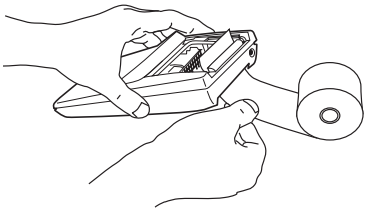
6. Thread the paper through the slot on the cover and replace the cover.

*To use the external paper roll holder:*

1. Follow Steps 1–3 under “Installing the Paper Roll” on Page 10.”

2. Insert the end of the paper into the rear slot from the bottom of the calculator, then insert the end of the paper into the slot inside the compartment.

3. Press **FEED** to advance the paper. Make sure the paper feeds from underneath the paper roll.



4. Raise the holder and slip the paper roll onto it.

5. Thread the paper through the slot on the cover and replace the cover.

   **Note:** Replace the paper roll when you see a red strip on one edge of the paper. Use a standard 2 1/4-inch paper roll.

# ❒ *Operation*

## TURNING THE CALCULATOR ON/OFF

Press **AC** to turn on the calculator. Press **OFF** to turn it off.

To save power, the calculator automatically turns off if you do not use it for about 6 minutes. Press **AC** to turn it back on.

**Note:** All previous entries are cleared when the calculator turns off.

## PRINTING

The calculator can print and display all calculator entries and results, or simply display entries and results without printing them. You can also print a date, a reference or code number, and so on, without affecting the calculations in progress.

**Note:** The calculator's input buffer holds up to seven key operations, so you can enter calculations even while the calculator is printing.

To print, press **PRT**. PRT appears, and the calculator prints and displays all your calculator entries and results.

To display entries and results without printing them, press **PRT** again. PRT disappears, and the calculator displays your entries and results without printing them.

## Printing a Displayed Value

To print a displayed value even when the print function is turned off, press **P/#**. If a calculation result appears on the display, the calculator prints that number right-justified.

**Example:** 123 + 456 – 389 + 260 = 450

| Press | Printout | Display |
|---|---|---|
| **123 +** | | 123. |
| **456 –** | | 579. |
| **389 +** | | 190. |
| **P/#** | 190. | 190. |
| **260 =** | | 450. |
| **P/#** | 450. | 450. |

While your entry appears, the calculator prints those numbers left-justified, with # to the left.

| Example | Press | Printout | Display |
|---|---|---|---|
| Date: 10/21/01 | **1021.01 P/#** | #1021·01---------- | 1ˆ021.01 |
| Acct: #10022 | **10022 P/#** | #10022 | 10ˆ022. |

## ROUNDING

**DEC** determines where the decimal appears on the display. Each time you press **DEC**, the display changes from no rounding (nothing appears on display), to rounded to the nearest whole number (**0**), to round to the nearest hundredths (**2**).

Press **DEC** until no rounding indicator appears on the display to use the full 12-digit display (no rounding) for your calculation results.

**Example:** 7894 ÷ 6 = 1315.666666

| Press | Printout | Display |
|---|---|---|
| **7894÷** | 7,894· ÷ | 7ˆ894. |
| **6 =** | 6· = 1,315·66666666* | 1ˆ315.66666666 |

Press **DEC** until **0** appears to round to the nearest whole number.

**Example:** 7894 ÷ 6 = 1316 (**0**)

| Press | Printout | Display |
|---|---|---|
| **7894÷** | 7,894. ÷ | 7`894. |
| **6 =** | 6. =<br>1,316* | 1`316 |

When rounding, if the third number to the right of the decimal is 5 or greater, the final calculation rounds up. If the third number to the right of the decimal is 4 or less, the calculation rounds down.

Press **DEC** until **2** appears to round to the nearest hundredth.

**Example:** 7894 ÷ 6 = 1315.67 (**2**)

| Press | Printout | Display |
|---|---|---|
| **7894÷** | 7,894. ÷ | 7`894. |
| **6 =** | 6. =<br>1,315.67* | 1`315.67 |

## CORRECTING ENTRY ERRORS

If you enter an incorrect value, press **C** once. Then enter the correct value and proceed with your calculation.

If you press the incorrect key (+, –, ×, ÷), simply press the correct key and continue.

## CORRECTING CALCULATION ERRORS

**E** (error) appears at the upper left of the display when:

- A calculation result exceeds 12 digits. See “Estimating Calculation Results” on Page 18.
- A memory calculation exceeds 12 digits. The memory contents remain unchanged.
- You try to divide by 0.

If **E** appears, press **AC** to clear the error.

## Estimating Calculation Results

If you perform an operation that results in an overflow error, you can estimate the approximate value (to 12 significant digits) by following this procedure.

1. Count the number of digits displayed to the left of the decimal point.

2. Remove the decimal point.

3. Add to the right of the number as many zeros as there were digits to the left of the decimal point.

   For example, the displayed value **E1.014206404 25** is estimated to equal 1,014,206,404,250 (one zero added).

4. Press **C** to clear the error.

# ❒ *Calculation Examples*

**Note:** Except as noted, all the following examples assume you are not rounding. The results vary when you select another setting (0 or 2).

## BASIC CALCULATIONS

**Example:** (–45) × 89 + 12 =

| Press | Printout | Display |
|---|---|---|
| **AC** | 0•C | **0.** |
| **–** | 0• – | **0.** |
| **45 ×** | 45• × | **-45.** |
| **89 +** | 89• + | **-4`005.** |
| **12 =** | 12• =<br>–3,993•* | **-3`993.** |

## CONSTANT CALCULATIONS

Enter the value of the constant, then press the function key (+, –, ×, ÷) twice.

**Note:** K appears on the display when you use a constant.

| Press | Printout | Display |
|---|---|---|
| **1.2 +** | 1•2 + | 1.2 |
| **+** | 1•2 + | K 1.2 |
| **3 =** | 3• =<br>4•2* | K 4.2 |
| **6 =** | 6• =<br>7•2* | K 7.2 |

| Press | Printout | Display |
|---|---|---|
| **12 ×** | 12• × | 12. |
| **×** | 12• × | K 12. |
| **2.3 =** | 2•3 =<br>27•6 * | K 27.6. |
| **4.5 =** | 4•5 =<br>54• * | K 54. |

| Press | Printout | Display |
|---|---|---|
| **2.5 ×** | 2•5 × | 2.5 |
| **×** | 2•5 × | K 2.5 |
| **=** | 2•5 =<br>6•25 * | K 6.25 |
| **=** | 6•25 =<br>15•625 * | K 15.625 |

| Press | Printout | Display |
|---|---|---|
| = | 15·625 =<br>39·0625 * | 39.0625 |

## MEMORY CALCULATIONS

The memory calculation feature lets you easily do multi-step calculations. Use the following keys for memory calculations.

**Note:** The memory keys are common to currency conversion keys. Before performing the memory calculation, check that the display does not show **EXCH**. If it does, press **M/EX** so **EXCH** disappears.

*To store a value in memory*, press **AC** then **MC** to clear the memory. Then enter the number or calculation and press **M+**.

*To add a value to the current memory value*, enter the number or calculation you want to add then press **M+**. The calculator totals the current calculation and adds that value to memory.

*To subtract a value from the current memory value*, enter the number or calculation you want to subtract, then press **M–**. The calculator totals the current

calculation and subtracts that value from memory.

*To recall the value from memory*, press **MR**.

**Note:** m appears when the memory function is used

**Example:** (53 + 6) + (23 – 8) + (56 × 2) + (99 ÷ 4) = 210.75.

| Press | Printout | Display |
|---|---|---|
| **MC** | M<br>C | **0.** |
| **53 +** | 53▪ + | **53.** |
| **6 M+** | 6▪ =<br>59▪ M<br>+ | **m 59.** |
| **23 –** | 23▪ – | **m 23.** |
| **8 M+** | 8▪ =<br>15▪ M<br>+ | **m 15.** |
| **56 ×** | 56▪ × | **m 56.** |
| **2 M+** | 2▪ =<br>112▪ M<br>+ | **m 112.** |
| **99 ÷** | 99▪ ÷ | **m 99.** |

| Press | Printout | Display |
|---|---|---|
| **4 M+** | 4. =<br>24.75 M<br>+ | m 24.75 |
| **MR** | 210.75 M | m 210.75 |

## PERCENTAGE CALCULATIONS

**Example:** What is 12% of 1500?

| Press | Printout | Display |
|---|---|---|
| **1500 ×** | 1,500. × | 1500 |
| **12 %** | 12.%<br>180.* | 180. |

**Example:** What percentage of 880 is 660?

| Press | Printout | Display |
|---|---|---|
| **660 +** | 660. ÷ | 660. |
| **880 %** | 880. %<br>75.* | 75. |

**Example:** What is 15% of 2500 added to 2500?

| Press | Printout | Display |
|---|---|---|
| **2500 ×** | 2,500▪ × | **2`500.** |
| **15 %** | 15▪%<br>375▪* | **375.** |
| **+** | 2,875▪ +<br>* | **2`875.** |

**Example:** How much is a 25% decrease of 3500?

| Press | Printout | Display |
|---|---|---|
| **3500 ×** | 3,500▪ × | **3`500.** |
| **25 %** | 25▪%<br>875▪* | **875.** |
| **–** | 2,625▪ –<br>* | **2`625.** |

**Example:** If you made $80 last week and $100 this week, what percentage is the increase?

| Press | Printout | Display |
|---|---|---|
| **100 –** | 100▪ – | **100.** |

| Press | Printout | Display |
|---|---|---|
| **80 %** | 80▪%<br>25▪* | **25.** |

## MARKUP CALCULATIONS

**Example:** What are the selling price and profit when the purchase price of an item is $480 and the gross profit margin is 25%?

| Press | Printout | Display |
|---|---|---|
| **480 +** | 480▪ + | **480.** |
| **25 %** | 25▪%<br>640▪* | **640.** |
| **–** | 160▪ –<br>* | **160.** |

## TAX CALCULATIONS

### Entering the Tax Rate

Tax Rate = 5%

| Press | Printout | Display |
|---|---|---|
| **AC** | 0▪C | **0.** |

| Press | Printout | Display |
|---|---|---|
| **Hold SET(%) for about 3 seconds** | #---------- | **SET 0.** |
| **TAX+ 5 SET(%)** | #----------5•T | **TAX % 5.** |

**Note:** To check the currently set tax rate, press **AC TAX+**.

## Calculating Tax

We recommend you round to the nearest hundredth (**2**) to obtain dollar-cent calculation result. The following examples assume that you do so.

**Example:** Calculate the price including 5% tax for a product priced $150.

| Press | Printout | Display |
|---|---|---|
| **AC** | 0•C | **0.** |
| **150 TAX+** | 150•T<br>–<br>5•T<br>%<br>7•50T *(tax amount)*<br>157•50T *(price including tax)*<br>+ | **TAX +**<br>**157.50** |

**Example:** To sell a product at $100 including tax, how much is the price without tax?

| Press | Printout | Display |
|---|---|---|
| **AC** | 0•C | 0. |
| **100 TAX–** | 100•T<br>+<br>5•T<br>%<br>4•76T *(tax amount)*<br>95•24T *(price without tax)*<br>– | TAX –<br>95.24 |

## CURRENCY CONVERSION

Press **M/EX** to enter the currency conversion/tax mode. EXCH appears. Press **M/EX** again to return to normal mode.

### Setting the Conversion Rate

You can store up to three conversion rates in the calculator, then recall them by pressing **C1(MR)**, **C2(M–)**, or **C3(M+)**.

**Notes:**

- For rates of 1 or greater, you can enter up to six digits. For rates less than 1, you can enter up to eight digits including 0 for the integer digit and leading 0. However, only up to six significant digits can be specified. Any rate exceeding the limit results an error and **E** appears.

| Accepted | Not Accepted |
|---|---|
| 0.123456 | 0.1234567 (more than six significant digits) |
| 0.0012345 | 0.00123456 (more than eight digits) |

- The rates stored are retained in memory even when you turn off the calculator as long as power is connected (battery or AC adapter).
- To check the rate, press **AC** then **C1(MR)**, **C2(M–)**, or **C3(M+)**. The rate appears but does not print, even if you turn on the print function.

**Example:** Setting the conversion rate as 1 US Dollar = 123.4 Japanese Yen into C1.

| Press | Printout | Display |
|---|---|---|
| **AC** | 0·C | EXCH 0. |
| **Hold down SET(%) for about 3 seconds** | #---------- | EXCH SET 0. |
| **C1(MR) 1 2 3 . 4 SET** | #1--------- 123·400 | C1 EXCH RATE 123.400 |

The factory default settings are the Euro conversion rates. 1 Euro converts to the following values:

C1 — 1.95583 (German Mark)

C2 — 6.55957 (French Franc)

C3 — 1936.27 (Italian Lira)

## Converting Currencies

Following examples assume that you round to the nearest hundredth (2).

**Example:** Converting DM100 (German Mark, stored in C1) to US$.

| Press | Printout | Display |
|---|---|---|
| **AC** | 0.C | EXCH 0. |
| **100**<br>**C1(MR)** | 100.C<br>÷ | C1 EXCH<br>100. |
| **$(MC)** | #1--------1.95583=<br>51.13$ | $ EXCH<br>51.13$ |

**Example:** Converting US$110 to French Francs (stored in C2)

| Press | Printout | Display |
|---|---|---|
| **AC** | 0.C | EXCH 0. |
| **110**<br>**$(MC)** | 110.$<br>X | $ EXCH 110. |
| **C2(M–)** | #2-------6.55957=<br>721.55C | C2 EXCH<br>721.55 |

**Example:** Converting DM10,000 (stored in C1) to French Francs (stored in C2).

| Press | Printout | Display |
|---|---|---|
| **AC** | 0.C | EXCH 0. |
| **10000**<br>**C1(MR)** | 10,000.C<br>÷ | C1 EXCH<br>10'000. |

| Press | Printout | Display |
|---|---|---|
| **C2(M–)** | #1------1·95583=<br>5,112·9188119$<br>X<br>#2------6·55957=<br>33,538·55C | C2 EXCH<br>33`538.55 |

## ❒ *Care*

Keep the calculator dry; if it gets wet, wipe it dry immediately. Use and store the calculator only in normal temperature environments. Handle the calculator carefully; do not drop it. Keep the calculator away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

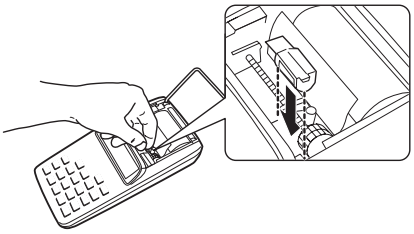
Modifying or tampering with the calculator's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your calculator is not performing as it should, take it to your local RadioShack store for assistance.

## REPLACING THE INK ROLLER

The printer uses a disposable ink roller cartridge. When the print gets too light, replace the ink roller cartridge. You can order replacement ink cartridges from your local RadioShack store.

**Caution:** Never try to reuse the ink roller by adding a solvent or liquid ink to it. This could damage the printer.

1. Slide open the paper roll compartment cover and lift it off.
2. Raise the paper roll holder, if necessary.
3. Remove the ink roller by lifting it at **PULL UP**.
4. Install the new ink roller cartridge.



5. Lower the paper roll holder, if necessary.

6. Replace the cover.

## RESETTING THE CALCULATOR

Resetting your calculator clears all calculations and memory values. If your calculator locks up, be sure the power is on, then press **RESET** with a straightened paper clip to clear the calculator.

If your calculator still does not work properly, replace the batteries and press **RESET** again.

# ❒ Specifications

Ambient Temperature Range ..... 32–104°F (0–40°C)

Battery Life ..... About 27,000 lines of printing

Power .....4 AA batteries (1.5 V)

Optional AC Adapter

Dimensions (HWD) (including roll holder): .....$1^{9}/_{16}$ x $3^{7}/_{8}$ x $7^{3}/_{4}$ Inches (39.5 × 98 × 196 mm)

Weight (including batteries).....12 oz (.34 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

## Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

*(Continued)*

*(Continued)*

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

*12/99*